



## Lancaster, PA Facility Instrumentation

### Liquid Chromatography

Agilent/Waters/Thermo HPLCs	123
Waters Acquity UPLCs	7
HPLC Detectors	163
Ultraviolet (UV)	118
Refractive Index (RI)	14
Fluorescence (FL)	7
Photodiode Array (PDA)	17
Multi-angle Light Scattering (MALS)	2
Electrochemical (ECD)	2
Evaporative Light Scattering (ELSD)	3
Corona Charged Aerosol (CAD+)	6
Dionex ICS-3000 Ion Chromatographs (IC)	5
Fraction Collector	1

### Capillary Electrophoresis

Beckman Coulter PA 800 PLUS with Laser-Induced Fluorescence (LIF)	1
Convergent iCE 280	1
Beckman Coulter PA 800	1

### Mass Spectrometry

Thermo LC/LTQ Orbitrap XL	1
Thermo LC/LTQ XL Ion Trap	1
Waters XEVO - TOF	1
Agilent LC-TOFs	2
Applied Biosystems Voyager DE PRO MALDI-TOF	1
Thermo LC/TSQ Vantage LC/MS/MSs	6
Waters Quattro Micro LC/MS/MS	1
Agilent LC-Trap	1
Thermo iSQ GC/MS	1
Agilent GC/MS	2

### Gas Chromatography

Agilent GCs	22
Headspace Autosamplers	8

### Elemental Analysis

Perkin Elmer Optima 5300 Inductively Coupled Plasma (ICP-OES) Spectrophotometer	1
Perkin Elmer Elan 9000 ICP/MS	1
Perkin Elmer Graphite Furnace Atomic Absorption Spectrometer	1
Perkin Elmer Analyst 800 Flame Atomic Absorption Spectrometer	1
Perkin Elmer CHN Analyzer	1
Agilent 7700 ICP/MS	1
Thermo Scientific iCAP 6500 ICP/OES	1

### Spectrophotometry

Bio-Rad Excalibur FTS 3000 Fourier Transform Infrared Spectrophotometer (FTIR)	1
Agilent 8453 UV/VIS Spectrophotometers	8
Jasco J-815 Spectropolarimeter (Circular Dichroism)	1
Nicolet 6700 FTIR with NIR and Raman and Photoacoustic Functions	1



### Molecular Biology/Cell Biology/Virology

Applied Biosystem 7500 FAST qPCR systems	2
Applied Biosystem Genetic Analyzer 3500	1
Thermo Scientific Controlled Rate Freezer	1
ThermoFisher Nanodrop 1000	1
Molecular Devices M2, M5e, Luminescent Plate Readers	4
Beckman Coulter Vi Cell Automated Cell Counter	1
Tissue culture and virology laboratories with controlled access equipped with HEPA filtration and BSL2 capabilities	-
cGMP-Compliant Cell Bank Manufacturing Suites with ISO 7 clean rooms	2
GE AKTA Purifier 100 Chromatography Systems (FPLC)	2
GE AKTA Explorer 100 Air Chromatography System (FPLC)	1
Viral Clearance Suites - dedicated, with controlled access and equipped with HEPA filtration	2

### Miscellaneous Pharmaceutical/Biopharmaceutical

Volumetric Karl Fisher (KF) Systems	4
Coulometric KF Systems	4
Coulometric KF Systems with oven	2
Thin Layer Chromatography (TLC) Sampler	1
Thin Layer Chromatography Digital Camera	1
Polarimeter	1
Refractometer	1
Rotational Viscometers	3
Electronic Titrators	3
Dissolution Baths (Apparatus 1,2,5, and 7) (Distek/Varian/Sotax)	39
22 with semi-automated pulling systems, 2 APP 4 systems, 2 APP 7 systems, 1-mini-vessel system	
GE Analytical/Sievers 900/800 Total Organic Carbon Analyzers (TOC)	4
Differential Scanning Calorimeter (DSC)	1
Thermo Gravimetric Analyzer (TGA)	1
Ion Mobility Spectroscopy (IMS)	1
Stability Chambers (30,000 ft <sup>3</sup> )	39

### Microbiology

Microbiology laboratories with controlled access, equipped with HEPA filtration and BSL2 capabilities	
la Calhene soft wall isolator system	
two half-suit workstations	3
three-glove transfer isolators	2
two-glove transfer isolators	2
Millipore Integral Steritest™ systems for membrane filtration	5
Steris VHP® 1000 systems for decontamination	2
Applied Biosystem MicroSeq Microbial Identification System	1
GC based microbial identification systems (MIS)	2
DuPont Qualicon Riboprinter® Microbial Identification System	1
HIAC/Royco particle counters	2
Endoscan-V systems for performing kinetic turbidimetric/chromogenic endotoxin tests	2
Aqualab water activity meter	1

### Metrology

8 full-time metrologists with extensive in-house preventive maintenance and parts inventory

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